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IGMP SNOOPING Commands



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Chapter 1 IGMP SNOOPING Commands

1.1 ip igmp snooping

[Function]

Use this global command to enable IGMP Snooping, use “**no ip igmp-snooping**” to disable this function.

[Command Format]

[no] ip igmp snooping [schedule-list list-no]

[Parameter]

schedule-list: set the starting time, ending time and time interval of periodical task.

list-no: periodical list number range from<0-99>.

[Default]

IGMP Snooping function disables.

[Command Modes]

Global configuration mode; Privileged EXEC.

[Executing Command Instruction]

When start IGMP snooping, IGMP snooping function will be enabled on all current VLAN;
When the function is disabled, IGMP snooping function will be disabled on all current VLAN.

[Explanation of command execution echo]

Enable IGMP snooping successfully

Enable IGMP snooping unsuccessfully

Disable IGMP snooping successfully

Disable IGMP snooping unsuccessfully

[Example]

Start IGMP snooping:

```
Raisecom(config)# ip igmp snooping
```

Stop IGMP Snooping:

```
Raisecom(config)#no ip igmp snooping
```

[Related commands]

Commands	Description
show ip igmp snooping	Show IGMP Snooping config information.

1.2 ip igmp snooping

[Function]

Use this global command to enable IGMP Snooping, use “**no ip igmp-snooping**” to disable this function.

[Command Format]

ip igmp snooping [schedule-list *list-no*]

[no] ip igmp snooping [schedule-list *list-no*]

[Parameter]

schedule-list: set the starting time, ending time and time interval of periodical task.

list-no: dispatching list number range from<0-99>.

[Default]

IGMP Snooping is enabled in all active VLAN.

[Command Modes]

VLAN configuration mode; Privileged EXEC.

[Executing Command Instruction]

Use this command to enable IGMP snooping function on VLAN, use **no ip igmp snooping** to stop IGMP snooping function on VLAN.

[Explanation of command execution echo]

Enable IGMP snooping on VLAN 1 successfully

Enable IGMP snooping on VLAN 1 unsuccessfully

Disable IGMP snooping on VLAN 1 successfully

Disable IGMP snooping on VLAN 1 unsuccessfully

[Example]

Start IGMP snooping of VLAN 1:

Raisecom(config-vlan)# **ip igmp snooping**

Stop IGMP Snooping on VLAN 1:

Raisecom(config-vlan)#**no ip igmp snooping**

[Related commands]

Commands	Description
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show ip igmp snooping	Show IGMP Snooping config information
show ip igmp snooping vlan	Show IGMP Snooping config information of assigned VLAN

1.3 ip igmp snooping immediate-leave

[Function]

Use this command to enable IGMP snooping immediate-leave function on assigned VLAN, use **no ip igmp snooping immediated-leave** to stop the IGMP snooping immediate-leave function on designated VLAN.

[Command Format]

ip igmp snooping immediate-leave

[no] ip igmp snooping immediate-leave

[Default]

IGMP Snooping immediate-leave function is disabled by default.

[Command Modes]

VLAN configuration mode; Privileged EXEC.

[Executing Command Instruction]

Use this command to start IGMP snoop immediate-leave function on designated VLAN, use **no ip igmp snooping immediate-leave** to stop IGMP snoop immediate-leave function.

[Explanation of command execution echo]

Enable IGMP immediate-Leave processing on the VLAN 1 successfully

Enable IGMP Immediate-Leave processing on the VLAN 1 unsuccessfully

Disable IGMP Immediate-Leave processing on the VLAN 1 successfully

Disable IGMP Immediate-Leave processing on the VLAN 1 unsuccessfully

[Example]

Start the IGMP snooping immediate-leave on VLAN1:

RAISECOM(config-vlan)# **ip igmp snooping immediate-Leave**

Stop the IGMP snooping immediate-leave on VLAN1:

RAISECOM(config-vlan)#**no ip igmp snooping immediate-Leave**

[Related commands]

Commands	Description
show ip igmp snooping	Show IGMP Snooping config information
show ip igmp snooping vlan	Show IGMP Snooping config information of assigned VLAN

1.4 ip igmp snooping mrouter

[Function]

Use this command to set the multicast router port on designated VLAN, use **no ip igmp snooping mrouter** to delete.

[Command Format]

ip igmp snooping mrouter vlan <1-4094> port <1-26>

[no] ip igmp snooping mrouter vlan <1-4094> port <1-26>

[Command Modes]

Global configuration mode; Privileged EXEC.

[Executing Command Instruction]

Use this command to set the router port on designated VLAN, use **no ip igmp snooping mrouter** to delete router port. use this command to set the router port manually, so igmp packet can be transferred to this port.

[Explanation of command execution echo]

Set multicast router port successfully

Set multicast router port unsuccessfully

Set multicast router port successfully

Set multicast router port unsuccessfully

[Example]

Set the IGMP Snooping router port on VLAN 1 manually:

ISCOM2826(config)# **ip igmp snooping mrouter vlan 1 port 2**

Erase the IGMP Snooping router port on VLAN 1 manually:

ISCOM2826(config)#**no ip igmp snooping mrouter vlan 1 port 2**

[Related commands]

Commands	Description
show ip igmp snooping mrouter	Show IGMP Snooping mrouter information
show ip igmp snooping vlan mrouter	Show VLAN IGMP Snooping mrouter config information

1.5 ip igmp snooping timeout

[Function]

Use this command to configure time of IGMP snooping timeout. Use **no ip igmp-snooping timeout** to recover default configuration.

[Command Format]

ip igmp-snooping timeout *timeout*

[no] ip igmp-snooping timeout

[Parameter]

timeout: time of IP IGMP Snooping timeout, integer number range from 30 to 3600(second).

[Default]

Default value of timeout is 300 seconds.

[Command Modes]

Global configuration mode and Privileged EXEC

[Executing Command Instruction]

This command configure valid time of multicast router in IGMP Snooping, multicast route is deleted when timer is overtime. Use **no ip igmp-snooping timeout** to recover default configuration.

[Explanation of command execution echo]

set igmp snooping aging successfully

set igmp snooping aging unsuccessfully

set default igmp snooping aging successfully

set default igmp snooping aging unsuccessfully

[Example]

Set time of IGMP snooping timeout is 3000 seconds:

Raisecom(config)# **ip igmp-snooping timeout 3000**

Set time of IGMP snooping timeout is default value:

Raisecom(config)# **no ip igmp-snooping timeout**

[Related commands]

Commands	Description
show ip igmp snooping	Show IGMP Snooping config information

1.6 ip igmp snooping vlan-list

[Function]

Use this command to start the IGMP snooping function on particular VLAN, use **no ip igmp snooping vlan** to stop the IGMP snooping function on particular VLAN.

[Command Format]

ip igmp snooping vlan-list *vlanlist*

[no] ip igmp snooping vlan-list *vlanlist*

[Parameter]

vlanlist: VLAN list, range from 1-4094, format is {1-4094}, Example 2-100,120. The longest parameter is 50 characters.

[Default]

When the IGMP Snooping has been started, all the VLAN will start IGMP Snooping function by default.

[Command Modes]

Global configuration mode; Privileged EXEC.

[Executing Command Instruction]

Use this command to start IGMP snooping on particular VLAN, use `no ip igmp snooping vlan` to stop IGMP Snooping function on particular VLAN. Use this command to start/stop the IGMP snooping on many VLAN.

[Explanation of command execution echo]

Enable IGMP snooping on VLAN 1 –10 successfully

Enable IGMP snooping on VLAN 1 –10 unsuccessfully

Disable IGMP snooping on VLAN 1 –10 successfully

Disable IGMP snooping on VLAN 1 –10 unsuccessfully

[Example]

Start the IGMP Snooping function on VLAN 1-10 and 12,15:

RAISECOM(config)# **ip igmp snooping vlan-list** *1-10,12,15*

Stop the IGMP Snooping function on VLAN 1-10 and 12:

RAISECOM(config-vlan)#**no ip igmp snooping vlan-list** *1-10,12*

[Related commands]

Commands	Description
show ip igmp snooping	Show IGMP Snooping config information
show ip igmp snooping vlan	Show VLAN IGMP Snooping config information

1.7 ip igmp snooping vlan-list vlanlist immediate-leave

[Function]

Use this command to start the IGMP snooping immediate leave function on particular VLAN, use **no ip igmp snooping vlan** to stop the IGMP snooping immediate leave function.

[Command Format]

ip igmp snooping vlan-list *vlanlist* immediate-leave

[no] ip igmp snooping vlan-list *vlanlist* immediate-leave

[Parameter]

vlanlist: VLAN list, range from 1-4094, the format is {1-4094}, Example 2-100,120. The longest parameter has 50 characters.

[Default]

Disable by default.

[Command Modes]

Global configuration mode; Privileged EXEC.

[Command Format]

Use this command to start IGMP snooping immediate leave function on designated VLAN, use **no ip igmp snooping vlan** to stop the IGMP snooping immediate leave function on designated VLAN. Use this command to start/stop IGMP snooping immediate leave function on VLAN.

[Command execution echo]

Enable IGMP immediate-Leave processing on the VLAN 1 –10 successfully

Enable IGMP Immediate-Leave processing on the VLAN 1 –10 unsuccessfully

Disable IGMP Immediate-Leave processing on the VLAN 1 –10 successfully

Disable IGMP Immediate-Leave processing on the VLAN 1 –10 unsuccessfully

[Example]

Start the IGMP snooping immediate leave function on VLAN 1-10 and 12, 15:

RAISECOM(config)# **ip igmp snooping vlan-list 1-10,12,15 immediate-Leave**

Stop the IGMP snooping immediate leave function on VLAN 1-10 and 12:

RAISECOM (config)#**no ip igmp snooping vlan-list 1-10,12 immediate-Leave**

[Related commands]

Commands	Description
show ip igmp snooping	Show IGMP Snooping config information
show ip igmp snooping vlan	Show VLAN IGMP Snooping config information

1.8 show ip igmp snooping

[Function]

Show the dynamic-learning or manual configuration information of multi-router port or IGMP

Snooping configuration information.

[Command Format]

show ip igmp-snooping [mrouter] [vlan vlanid]

[Parameter]

mrouter: Show the dynamic-learning or manual configuration information of multi-router port.

vlanid:VLAN ID range form 1 to 4094.

[Command Modes]

Privileged EXEC; privileged user

[Executing Command Instruction]

show ip igmp snooping show IGMP snooping state and particular VLAN state.

show ip igmp snooping mrouter show dynamic learning or manual configuration information of multi-cast router port.

show ip igmp snooping vlan vlanid show the state of particular VLAN.

show ip igmp snooping mrouter vlan vlanid show multicast router port information of designated VLAN.

If do not specify VLAN, show all the VLAN information.

[Example]

Show IGMP snooping configuration information:

Raisecom# **show ip igmp snooping**

IGMP snooping: Enable
IGMP snooping aging time: 50s
IGMP snooping active vlan: 1
IGMP snooping immediate-leave active vlan: --

Show all the multicast router information of all the VLAN:

Raisecom# **show ip igmp snooping mrouter**

Ip Address Port VLAN Age Type

Show IGMP snooping configuration information of VLAN 1:

Raisecom# **show ip igmp snooping vlan 1**

IGMP snooping: Enable
IGMP snooping aging time: 50s
IGMP snooping on Vlan 1: Enable.
IGMP snooping immediate-leave on Vlan 1: Disable.

Show IGMP snooping multicast router information of VLAN 1:

Raisecom#show ip igmp snooping mrouter vlan 1

IGMP snooping: Enable

IGMP snooping aging time: 50s

IGMP snooping on Vlan 1: Enable.

IGMP snooping immediate-leave on Vlan 1: Disable.



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